

WHAT IS CLAIMED IS:

1. A water filler, comprising a water filling device, and a regulating device, wherein:

the water filling device includes an inner filling tube, an outer filling
5 tube, and an upper cover;

the outer filling tube is mounted on the inner filling tube and has an upper end having a center formed with a water inlet communicating with the inner filling tube;

the upper cover is mounted on the outer filling tube, the upper cover
10 has a top formed with a water outlet and has an inner wall formed with a chamber communicating with the water outlet, the chamber of the upper cover has a center formed with a guide column having a periphery formed with a plurality of channels each communicating with the chamber and each communicating with the water inlet of the outer filling tube;

15 the regulating device includes a floating barrel, a sliding barrel, a water support disk, and an adjusting unit;

the floating barrel is movably mounted on the outer filling tube and has an inside formed with a hollow chamber having a first side formed with a through hole mounted on the outer filling tube and a second side formed with a
20 guide track and an opening communicating with the guide track, the inside of the floating barrel has an upper portion formed with an outer chamber, a lower

portion formed with an inner chamber and a mediate portion formed with a passage communicating with the outer chamber and the inner chamber;

the sliding barrel is movably mounted in the inner chamber of the floating barrel and has an upper portion provided with a recessed connecting
5 portion mounted in the passage of the floating barrel;

the water support disk is movably mounted in the outer chamber of the floating barrel and has a bottom rested on a bottom of the outer chamber of the floating barrel to block the passage of the floating barrel;

the adjusting unit includes a support bar, and a press plate;

10 the support bar is adjustably mounted in the guide track of the floating barrel; and

the press plate is pivotally mounted on the upper cover and the support bar and has a first end which is moved by pivot of the press plate to block the water outlet of the upper cover.

15 2. The water filler in accordance with claim 1, wherein the upper end of the outer filling tube has a periphery formed with a flange, and the upper cover is mounted on the flange of the outer filling tube by a plurality of screws.

3. The water filler in accordance with claim 1, wherein the water filling device further includes a sealing gasket mounted in the chamber of the
20 upper cover, and the guide column is extended through a through hole formed in the sealing gasket.

4. The water filler in accordance with claim 1, wherein the top of the upper cover is provided with a plurality of studs, and the water filling device further includes an outer cover mounted on the upper cover and provided with a plurality of hollow mounting posts mounted on the studs of the upper cover.

5 5. The water filler in accordance with claim 1, wherein the sliding barrel has an inside formed with a chamber.

6. The water filler in accordance with claim 1, wherein the water support disk has a diameter greater than that of the passage of the floating barrel.

10 7. The water filler in accordance with claim 1, wherein the connecting portion of the sliding barrel has a center formed with a mounting hole, and the bottom of the water support disk is formed with a downward extended protruding post inserted into the mounting hole of the connecting portion of the sliding barrel, so that the water support disk is combined with the
15 connecting portion of the sliding barrel to form a water control unit which is moved upward and downward by change of a water level of a water tank.

8. The water filler in accordance with claim 1, wherein the adjusting unit further includes an elastic positioning seat mounted in the opening of the floating barrel, and a press button movably mounted in the opening of the
20 floating barrel and urged on the positioning seat.

9. The water filler in accordance with claim 8, wherein the support bar is positioned by the positioning seat.

10. The water filler in accordance with claim 1, wherein the press plate has a second end pivotally mounted on an upper end of the support bar.

11. The water filler in accordance with claim 1, wherein the top of the upper cover is formed with two connected side walls each formed with a pivot
5 hole, and the press plate has two sides each provided with a pivot shaft pivotally mounted in the pivot hole of a respective one of the two side walls of the upper cover.

12. The water filler in accordance with claim 11, wherein the pivot shaft is located adjacent to the first end of the press plate.

10 13. The water filler in accordance with claim 11, wherein the top of the upper cover is formed with a guide lever located between the two side walls and having a first end located adjacent to the water outlet and a second end extended outward from the upper cover.

14. The water filler in accordance with claim 13, wherein the water
15 support disk is aligned with the second end of the guide lever.

15. The water filler in accordance with claim 1, wherein the upper cover is provided with an oblique guide channel located adjacent to the water outlet, and a guide tube mounted on a distal end of the oblique guide channel and directed toward the outer chamber of the floating barrel, so that water from
20 the water outlet is guided by the oblique guide channel and the guide tube into the outer chamber of the floating barrel.